SEQUENCE LISTING

<110> Tosato, Giovanna et al.

<120> Use of Calreticulin and Calretuculin Fragments to Inhibi Endothelial Cell Growth and Angiogenesis, and Suppress Tumor Growth

<130> 4239 53372

<140> ----------
<141> 1999-10-05

<150> US 60/103,438
<151> 1998-10-06

<160> 35

<170> PatentIn Ver. 2.0

<210> 1
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<213> Homo sapiens

<220>
<221> CDS
<222> (1)..(1251)

<400> 1

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Met Leu Leu Ser Val Pro Leu Leu Leu Gly Leu Leu Gly Leu Ala Val
  1               5                  10                  15

gcc gag cct gcc gtc tac ttc aag gag cag ttt ctg gac gga gac ggg   96
Ala Glu Pro Ala Val Tyr Phe Lys Glu Gln Phe Leu Asp Gly Asp Gly
             20                  25                  30

tgg act tcc cgc tgg atc gaa tcc aaa cac aag tca gat ttt ggc aaa  144
Trp Thr Ser Arg Trp Ile Glu Ser Lys His Lys Ser Asp Phe Gly Lys
         35                  40                  45

ttc gtt ctc agt tcc ggc aag ttc tac ggt gac gag gag aaa gat aaa  192
Phe Val Leu Ser Ser Gly Lys Phe Tyr Gly Asp Glu Glu Lys Asp Lys
     50                  55                  60

ggt ttg cag aca agc cag gat gca cgc ttt tat gct ctg tcg gcc agt  240
Gly Leu Gln Thr Ser Gln Asp Ala Arg Phe Tyr Ala Leu Ser Ala Ser
 65                  70                  75                  80

ttc gag cct ttc agc aac aaa ggc cag acg ctg gtg gtg cag ttc acg  288
Phe Glu Pro Phe Ser Asn Lys Gly Gln Thr Leu Val Val Gln Phe Thr
                 85                  90                  95

gtg aaa cat gag cag aac atc gac tgt ggg ggc ggc tat gtg aag ctg  336
Val Lys His Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu
            100                 105                 110
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ttt cct aat agt ttg gac cag aca gac atg cac gga gac tca gaa tac   384
Phe Pro Asn Ser Leu Asp Gln Thr Asp Met His Gly Asp Ser Glu Tyr
        115                 120                 125

aac atc atg ttt ggt ccc gac atc tgt ggc cct ggc acc aag aag gtt   432
Asn Ile Met Phe Gly Pro Asp Ile Cys Gly Pro Gly Thr Lys Lys Val
    130                 135                 140

cat gtc atc ttc aac tac aag ggc aag aac gtg ctg atc aac aag gac   480
His Val Ile Phe Asn Tyr Lys Gly Lys Asn Val Leu Ile Asn Lys Asp
145                 150                 155                 160

atc cgt tgc aag gat gat gag ttt aca cac ctg tac aca ctg att gtg   528
Ile Arg Cys Lys Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val
                165                 170                 175

cgg cca gac aac acc tat gag gtg aag att gac aac agc cag gtg gag   576
Arg Pro Asp Asn Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu
            180                 185                 190

tcc ggc tcc ttg gaa gac gat tgg gac ttc ctg cca ccc aag aag ata   624
Ser Gly Ser Leu Glu Asp Asp Trp Asp Phe Leu Pro Pro Lys Lys Ile
        195                 200                 205

aag gat cct gat gct tca aaa ccg gaa gac tgg gat gag cgg gcc aag   672
Lys Asp Pro Asp Ala Ser Lys Pro Glu Asp Trp Asp Glu Arg Ala Lys
    210                 215                 220

atc gat gat ccc aca gac tcc aag cct gag gac tgg gac aag ccc gag   720
Ile Asp Asp Pro Thr Asp Ser Lys Pro Glu Asp Trp Asp Lys Pro Glu
225                 230                 235                 240

cat atc cct gac cct gat gct aag aag ccc gag gac tgg gat gaa gag   768
His Ile Pro Asp Pro Asp Ala Lys Lys Pro Glu Asp Trp Asp Glu Glu
                245                 250                 255

atg gac gga gag tgg gaa ccc cca gtg att cag aac cct gag tac aag   816
Met Asp Gly Glu Trp Glu Pro Pro Val Ile Gln Asn Pro Glu Tyr Lys
            260                 265                 270

ggt gag tgg aag ccc cgg cag atc gac aac cca gat tac aag ggc act   864
Gly Glu Trp Lys Pro Arg Gln Ile Asp Asn Pro Asp Tyr Lys Gly Thr
        275                 280                 285

tgg atc cac cca gaa att gac aac ccc gag tat tct ccc gat ccc agt   912
Trp Ile His Pro Glu Ile Asp Asn Pro Glu Tyr Ser Pro Asp Pro Ser
    290                 295                 300

atc tat gcc tat gat aac ttt ggc gtg ctg ggc ctg gac ctc tgg cag   960
Ile Tyr Ala Tyr Asp Asn Phe Gly Val Leu Gly Leu Asp Leu Trp Gln
305                 310                 315                 320

gtc aag tct ggc acc atc ttt gac aac ttc ctc atc acc aac gat gag  1008
Val Lys Ser Gly Thr Ile Phe Asp Asn Phe Leu Ile Thr Asn Asp Glu
                325                 330                 335
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gca tac gct gag gag ttt ggc aac gag acg tgg ggc gta aca aag gca   1056
Ala Tyr Ala Glu Glu Phe Gly Asn Glu Thr Trp Gly Val Thr Lys Ala
            340                 345                 350

gca gag aaa caa atg aag gac aaa cag gac gag gag cag agg ctt aag   1104
Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu Lys
        355                 360                 365

gag gag gaa gaa gac aag aaa cgc aaa gag gag gag gag gca gag gac   1152
Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu Asp
    370                 375                 380

aag gag gat gat gag gac aaa gat gag gat gag gag gat gag gag gac   1200
Lys Glu Asp Asp Glu Asp Lys Asp Glu Asp Glu Glu Asp Glu Glu Asp
385                 390                 395                 400

aag gag gaa gat gag gag gaa gat gtc ccc ggc cag gcc aag gac gag   1248
Lys Glu Glu Asp Glu Glu Glu Asp Val Pro Gly Gln Ala Lys Asp Glu
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Leu
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<210> 2
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<213> Homo sapiens

<400> 2

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Met Leu Leu Ser Val Pro Leu Leu Leu Gly Leu Leu Gly Leu Ala Val
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Ala Glu Pro Ala Val Tyr Phe Lys Glu Gln Phe Leu Asp Gly Asp Gly
             20                  25                  30

Trp Thr Ser Arg Trp Ile Glu Ser Lys His Lys Ser Asp Phe Gly Lys
         35                  40                  45

Phe Val Leu Ser Ser Gly Lys Phe Tyr Gly Asp Glu Glu Lys Asp Lys
     50                  55                  60

Gly Leu Gln Thr Ser Gln Asp Ala Arg Phe Tyr Ala Leu Ser Ala Ser
 65                  70                  75                  80

Phe Glu Pro Phe Ser Asn Lys Gly Gln Thr Leu Val Val Gln Phe Thr
                 85                  90                  95

Val Lys His Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu
            100                 105                 110

Phe Pro Asn Ser Leu Asp Gln Thr Asp Met His Gly Asp Ser Glu Tyr
        115                 120                 125

Asn Ile Met Phe Gly Pro Asp Ile Cys Gly Pro Gly Thr Lys Lys Val
    130                 135                 140
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His Val Ile Phe Asn Tyr Lys Gly Lys Asn Val Leu Ile Asn Lys Asp
145                 150                 155                 160

Ile Arg Cys Lys Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val
                165                 170                 175

Arg Pro Asp Asn Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu
            180                 185                 190

Ser Gly Ser Leu Glu Asp Asp Trp Asp Phe Leu Pro Pro Lys Lys Ile
        195                 200                 205

Lys Asp Pro Asp Ala Ser Lys Pro Glu Asp Trp Asp Glu Arg Ala Lys
    210                 215                 220

Ile Asp Asp Pro Thr Asp Ser Lys Pro Glu Asp Trp Asp Lys Pro Glu
225                 230                 235                 240

His Ile Pro Asp Pro Asp Ala Lys Lys Pro Glu Asp Trp Asp Glu Glu
                245                 250                 255

Met Asp Gly Glu Trp Glu Pro Pro Val Ile Gln Asn Pro Glu Tyr Lys
            260                 265                 270

Gly Glu Trp Lys Pro Arg Gln Ile Asp Asn Pro Asp Tyr Lys Gly Thr
        275                 280                 285

Trp Ile His Pro Glu Ile Asp Asn Pro Glu Tyr Ser Pro Asp Pro Ser
    290                 295                 300

Ile Tyr Ala Tyr Asp Asn Phe Gly Val Leu Gly Leu Asp Leu Trp Gln
305                 310                 315                 320

Val Lys Ser Gly Thr Ile Phe Asp Asn Phe Leu Ile Thr Asn Asp Glu
                325                 330                 335

Ala Tyr Ala Glu Glu Phe Gly Asn Glu Thr Trp Gly Val Thr Lys Ala
            340                 345                 350

Ala Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu Lys
        355                 360                 365

Glu Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu Asp
    370                 375                 380

Lys Glu Asp Asp Glu Asp Lys Asp Glu Asp Glu Glu Asp Glu Glu Asp
385                 390                 395                 400

Lys Glu Glu Asp Glu Glu Glu Asp Val Pro Gly Gln Ala Lys Asp Glu
                405                 410                 415

Leu
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<210> 3
<211> 400

<212> PRT
<213> Homo sapiens

<400> 3

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Glu Pro Ala Val Tyr Phe Lys Glu Gln Phe Leu Asp Gly Asp Gly Trp
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Thr Ser Arg Trp Ile Glu Ser Lys His Lys Ser Asp Phe Gly Lys Phe
             20                  25                  30

Val Leu Ser Ser Gly Lys Phe Tyr Gly Asp Glu Glu Lys Asp Lys Gly
         35                  40                  45

Leu Gln Thr Ser Gln Asp Ala Arg Phe Tyr Ala Leu Ser Ala Ser Phe
     50                  55                  60

Glu Pro Phe Ser Asn Lys Gly Gln Thr Leu Val Val Gln Phe Thr Val
 65                  70                  75                  80

Lys His Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu Phe
                 85                  90                  95

Pro Asn Ser Leu Asp Gln Thr Asp Met His Gly Asp Ser Glu Tyr Asn
            100                 105                 110

Ile Met Phe Gly Pro Asp Ile Cys Gly Pro Gly Thr Lys Lys Val His
        115                 120                 125

Val Ile Phe Asn Tyr Lys Gly Lys Asn Val Leu Ile Asn Lys Asp Ile
    130                 135                 140

Arg Cys Lys Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val Arg
145                 150                 155                 160

Pro Asp Asn Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu Ser
                165                 170                 175

Gly Ser Leu Glu Asp Asp Trp Asp Phe Leu Pro Pro Lys Lys Ile Lys
            180                 185                 190

Asp Pro Asp Ala Ser Lys Pro Glu Asp Trp Asp Glu Arg Ala Lys Ile
        195                 200                 205

Asp Asp Pro Thr Asp Ser Lys Pro Glu Asp Trp Asp Lys Pro Glu His
    210                 215                 220

Ile Pro Asp Pro Asp Ala Lys Lys Pro Glu Asp Trp Asp Glu Glu Met
225                 230                 235                 240

Asp Gly Glu Trp Glu Pro Pro Val Ile Gln Asn Pro Glu Tyr Lys Gly
                245                 250                 255

Glu Trp Lys Pro Arg Gln Ile Asp Asn Pro Asp Tyr Lys Gly Thr Trp
            260                 265                 270

Ile His Pro Glu Ile Asp Asn Pro Glu Tyr Ser Pro Asp Pro Ser Ile
        275                 280                 285
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Tyr Ala Tyr Asp Asn Phe Gly Val Leu Gly Leu Asp Leu Trp Gln Val
290 295 300

Lys Ser Gly Thr Ile Phe Asp Asn Phe Leu Ile Thr Asn Asp Glu Ala
305 310 315 320

Tyr Ala Glu Glu Phe Gly Asn Glu Thr Trp Gly Val Thr Lys Ala Ala
325 330 335

Glu Lys Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu Lys Glu
340 345 350

Glu Glu Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu Asp Lys
355 360 365

Glu Asp Asp Glu Asp Lys Asp Glu Asp Glu Glu Asp Glu Glu Asp Lys
370 375 380

Glu Glu Asp Glu Glu Glu Asp Val Pro Gly Gln Ala Lys Asp Glu Leu
385 390 395 400

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<211> 180
<212> PRT
<213> Homo sapiens

<400> 4
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Thr Ser Arg Trp Ile Glu Ser Lys His Lys Ser Asp Phe Gly Lys Phe
20 25 30

Val Leu Ser Ser Gly Lys Phe Tyr Gly Asp Glu Glu Lys Asp Lys Gly
35 40 45

Leu Gln Thr Ser Gln Asp Ala Arg Phe Tyr Ala Leu Ser Ala Ser Phe
50 55 60

Glu Pro Phe Ser Asn Lys Gly Gln Thr Leu Val Val Gln Phe Thr Val
65 70 75 80

Lys His Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu Phe
85 90 95

Pro Asn Ser Leu Asp Gln Thr Asp Met His Gly Asp Ser Glu Tyr Asn
100 105 110

Ile Met Phe Gly Pro Asp Ile Cys Gly Pro Gly Thr Lys Lys Val His
115 120 125

Val Ile Phe Asn Tyr Lys Gly Lys Asn Val Leu Ile Asn Lys Asp Ile

130 135 140

Arg Cys Lys Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val Arg
145 150 155 160

Pro Asp Asn Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu Ser
165 170 175

Gly Ser Leu Glu
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<212> PRT
<213> Homo sapiens

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Lys Asn Val Leu Ile Asn Lys Asp Ile Arg Cys Lys Asp Asp Glu Phe
20 25 30

Thr His Leu Tyr Thr Leu Ile Val Arg Pro Asp Asn Thr Tyr Glu Val
35 40 45

Lys Ile Asp Asn Ser Gln Val Glu Ser Gly Ser Leu Glu
50 55 60

<210> 6
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<212> PRT
<213> Homo sapiens

<400> 6
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1 5 10 15

Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val Arg Pro Asp Asn
20 25 30

Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu Ser Gly Ser Leu
35 40 45

Glu

<210> 7
<211> 1958
<212> DNA
<213> Homo sapiens

<220>
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<222> (109)..(1362)

<400> 7

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ccggagggtc gttttaaagg gccgcgcgtt gccgcccccc cggccgcc atg ctg cta  117
                                                      Met Leu Leu
                                                        1

tcc gtg ccg ttg ctg ctc ggc ctc ctc ggc ctg gcc gtc gcc gag cct   165
Ser Val Pro Leu Leu Leu Gly Leu Leu Gly Leu Ala Val Ala Glu Pro
      5                  10                  15

gcc gtc tac ttc aag gag cag ttt ctg gac gga gac ggg tgg act tcc   213
Ala Val Tyr Phe Lys Glu Gln Phe Leu Asp Gly Asp Gly Trp Thr Ser
 20                  25                  30                  35

cgc tgg atc gaa tcc aaa cac aag tca gat ttt ggc aaa ttc gtt ctc   261
Arg Trp Ile Glu Ser Lys His Lys Ser Asp Phe Gly Lys Phe Val Leu
                 40                  45                  50

agt tcc ggc aag ttc tac ggt gac gag gag aaa gat aaa ggt ttg cag   309
Ser Ser Gly Lys Phe Tyr Gly Asp Glu Glu Lys Asp Lys Gly Leu Gln
             55                  60                  65

aca agc cag gat gca cgc ttt tat gct ctg tcg gcc agt ttc gag cct   357
Thr Ser Gln Asp Ala Arg Phe Tyr Ala Leu Ser Ala Ser Phe Glu Pro
         70                  75                  80

ttc agc aac aaa ggc cag acg ctg gtg gtg cag ttc acg gtg aaa cat   405
Phe Ser Asn Lys Gly Gln Thr Leu Val Val Gln Phe Thr Val Lys His
     85                  90                  95

gag cag aac atc gac tgt ggg ggc ggc tat gtg aag ctg ttt cct aat   453
Glu Gln Asn Ile Asp Cys Gly Gly Gly Tyr Val Lys Leu Phe Pro Asn
100                 105                 110                 115

agt ttg gac cag aca gac atg cac gga gac tca gaa tac aac atc atg   501
Ser Leu Asp Gln Thr Asp Met His Gly Asp Ser Glu Tyr Asn Ile Met
                120                 125                 130

ttt ggt ccc gac atc tgt ggc cct ggc acc aag aag gtt cat gtc atc   549
Phe Gly Pro Asp Ile Cys Gly Pro Gly Thr Lys Lys Val His Val Ile
            135                 140                 145

ttc aac tac aag ggc aag aac gtg ctg atc aac aag gac atc cgt tgc   597
Phe Asn Tyr Lys Gly Lys Asn Val Leu Ile Asn Lys Asp Ile Arg Cys
        150                 155                 160

aag gat gat gag ttt aca cac ctg tac aca ctg att gtg cgg cca gac   645
Lys Asp Asp Glu Phe Thr His Leu Tyr Thr Leu Ile Val Arg Pro Asp
    165                 170                 175

aac acc tat gag gtg aag att gac aac agc cag gtg gag tcc ggc tcc   693
Asn Thr Tyr Glu Val Lys Ile Asp Asn Ser Gln Val Glu Ser Gly Ser
180                 185                 190                 195
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ttg gaa gac gat tgg gac ttc ctg cca ccc aag aag ata aag gat cct    741
Leu Glu Asp Asp Trp Asp Phe Leu Pro Pro Lys Lys Ile Lys Asp Pro
                200                 205                 210

gat gct tca aaa ccg gaa gac tgg gat gag cgg gcc aag atc gat gat    789
Asp Ala Ser Lys Pro Glu Asp Trp Asp Glu Arg Ala Lys Ile Asp Asp
            215                 220                 225

ccc aca gac tcc aag cct gag gac tgg gac aag ccc gag cat atc cct    837
Pro Thr Asp Ser Lys Pro Glu Asp Trp Asp Lys Pro Glu His Ile Pro
        230                 235                 240

gac cct gat gct aag aag ccc gag gac tgg gat gaa gag atg gac gga    885
Asp Pro Asp Ala Lys Lys Pro Glu Asp Trp Asp Glu Glu Met Asp Gly
    245                 250                 255

gag tgg gaa ccc cca gtg att cag aac cct gag tac aag ggt gag tgg    933
Glu Trp Glu Pro Pro Val Ile Gln Asn Pro Glu Tyr Lys Gly Glu Trp
260                 265                 270                 275

aag ccc cgg cag atc gac aac cca gat tac aag ggc act tgg atc cac    981
Lys Pro Arg Gln Ile Asp Asn Pro Asp Tyr Lys Gly Thr Trp Ile His
                280                 285                 290

cca gaa att gac aac ccc gag tat tct ccc gat ccc agt atc tat gcc    1029
Pro Glu Ile Asp Asn Pro Glu Tyr Ser Pro Asp Pro Ser Ile Tyr Ala
            295                 300                 305

tat gat aac ttt ggc gtg ctg ggc ctg gac ctc tgg cag gtc aag tct    1077
Tyr Asp Asn Phe Gly Val Leu Gly Leu Asp Leu Trp Gln Val Lys Ser
        310                 315                 320

ggc acc atc ttt gac aac ttc ctc atc acc aac gat gag gca tac gct    1125
Gly Thr Ile Phe Asp Asn Phe Leu Ile Thr Asn Asp Glu Ala Tyr Ala
    325                 330                 335

gag gag ttt ggc aac gag acg tgg ggc gta aca aag gca gca gag aaa    1173
Glu Glu Phe Gly Asn Glu Thr Trp Gly Val Thr Lys Ala Ala Glu Lys
340                 345                 350                 355

caa atg aag gac aaa cag gac gag gag cag agg ctt aag gag gag gaa    1221
Gln Met Lys Asp Lys Gln Asp Glu Glu Gln Arg Leu Lys Glu Glu Glu
                360                 365                 370

gaa gac aag aaa cgc aaa gag gag gag gag gca gag gac aag gag gat    1269
Glu Asp Lys Lys Arg Lys Glu Glu Glu Glu Ala Glu Asp Lys Glu Asp
            375                 380                 385

gat gag gac aaa gat gag gat gag gag gat gag gag gac aag gag gaa    1317
Asp Glu Asp Lys Asp Glu Asp Glu Glu Asp Glu Glu Asp Lys Glu Glu
        390                 395                 400

gat gag gag gaa gat gtc ccc ggc cag gcc aag gac gag ctg tag        1362
Asp Glu Glu Glu Asp Val Pro Gly Gln Ala Lys Asp Glu Leu
    405                 410                 415

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ccaaataatg tctctgtgag actcgagaac tttcattttt ttccaggctg gttcggattt 1482

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tttttatttt tttaaactgg tattttatct ttgattctcc ttcagccctc acccctggtt 1602

ctcatctttc ttgatcaaca tcttttcttg cctctgtccc cttctctcat ctcttagctc 1662

ccctccaacc tgggggggcag tggtgtggag aagccacagg cctgagattt catctgctct 1722

ccttcctgga gcccagagga gggcagcaga agggggtggt gtctccaacc ccccagcact 1782

gaggaagaac ggggctcttc tcatttcacc cctccctttc tcccctgccc ccaggactgg 1842

gccacttctg ggtggggcag tgggtcccag attggctcac actgagaatg taagaactac 1902

aaacaaaatt tctattaaat taaattttgt gtctcaaaaa aaaaaaaaag gaattc 1958

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<212> PRT
<213> Homo sapiens

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35 40 45

Ile Asp Asn Ser Gln Val Glu Ser Gly Ser Leu Glu
50 55 60

<210> 9
<211> 280
<212> PRT
<213> Homo sapiens

<400> 9
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1 5 10 15

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20 25 30

His Leu Tyr Thr Leu Ile Val Arg Pro Asp Asn Thr Tyr Glu Val Lys
35 40 45

Ile Asp Asn Ser Gln Val Glu Ser Gly Ser Leu Glu Asp Asp Trp Asp
50 55 60

Phe Leu Pro Pro Lys Lys Ile Lys Asp Pro Asp Ala Ser Lys Pro Glu
65 70 75 80

Asp Trp Asp Glu Arg Ala Lys Ile Asp Asp Pro Thr Asp Ser Lys Pro
85 90 95

Glu Asp Trp Asp Lys Pro Glu His Ile Pro Asp Pro Asp Ala Lys Lys
100 105 110

Pro Glu Asp Trp Asp Glu Glu Met Asp Gly Glu Trp Glu Pro Pro Val
115 120 125

Ile Gln Asn Pro Glu Tyr Lys Gly Glu Trp Lys Pro Arg Gln Ile Asp
130 135 140

Asn Pro Asp Tyr Lys Gly Thr Trp Ile His Pro Glu Ile Asp Asn Pro
145 150 155 160

Glu Tyr Ser Pro Asp Pro Ser Ile Tyr Ala Tyr Asp Asn Phe Gly Val
165 170 175

Leu Gly Leu Asp Leu Trp Gln Val Lys Ser Gly Thr Ile Phe Asp Asn
180 185 190

Phe Leu Ile Thr Asn Asp Glu Ala Tyr Ala Glu Glu Phe Gly Asn Glu
195 200 205

Thr Trp Gly Val Thr Lys Ala Ala Glu Lys Gln Met Lys Asp Lys Gln
210 215 220

Asp Glu Glu Gln Arg Leu Lys Glu Glu Glu Glu Asp Lys Lys Arg Lys
225 230 235 240

Glu Glu Glu Glu Ala Glu Asp Lys Glu Asp Asp Glu Asp Lys Asp Glu
245 250 255

Asp Glu Glu Asp Glu Glu Asp Lys Glu Glu Asp Glu Glu Glu Asp Val
260 265 270

Pro Gly Gln Ala Lys Asp Glu Leu
275 280

<210> 10
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<212> PRT
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<220>
<221> Variable
<222> 2
<223> Xaa represents I, L, G, C, or A

<220>
<223> Description of Artificial Sequence:Consensus integrin sequence

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1 5

<210> 11
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<213> Artificial Sequence

<220>
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<223> Xaa represents G, V, or A

<220>
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<222> 5
<223> Xaa represents K or R

<220>
<223> Description of Artificial Sequence:Consensus steroid nuclear receptor sequence

<400> 11
Lys Xaa Phe Phe Xaa Arg
1 5

<210> 12
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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<400> 12
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1 5

<210> 14
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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Lys Gly Gly Phe Phe Lys Arg
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<210> 15
<211> 7
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1 5

<210> 16
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<400> 16
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<400> 17
Lys Cys Gly Phe Phe Asp Arg
1 5

<210> 18

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integrin sequence

<400> 18
Arg Met Gly Phe Phe Lys Arg
1 5

<210> 19
<211> 7
<212> PRT
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<220>
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integrin sequence

<400> 19
Lys Val Gly Phe Phe Lys Arg
1 5

<210> 20
<211> 7
<212> PRT
<213> Artificial Sequence

<220>
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integrin sequence

<400> 20
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1 5

<210> 21
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Portion of
steroid nuclear receptor

<400> 21
Ala Cys Glu Gly Cys Lys Gly Phe Phe Arg Arg Ser Val Gln Lys
1 5 10 15

<210> 22
<211> 15

<212> PRT
<213> Artificial Sequence

<220>
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steroid nuclear receptor

<400> 22
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1 5 10 15

<210> 23
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<212> PRT
<213> Artificial Sequence

<220>
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steroid nuclear receptor

<400> 23
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1 5 10 15

<210> 24
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Portion of
steroid nuclear receptor

<400> 24
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1 5 10 15

<210> 25
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Portion of
steroid nuclear receptor

<400> 25
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1 5 10 15

<210> 26
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<213> Artificial Sequence

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<400> 26
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<400> 27
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<400> 30
Thr Cys Glu Gly Cys Lys Gly Phe Phe Lys Arg Thr Val Gln Lys
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